## Vacancies to work on Food Security at Lancaster: 3 post-doctoral research associates, 2 research technicians and 1 PhD studentship!

Lancaster University is ranked top 1% in the World and top 10 UK Universities. Lancaster Environment Centre is a large and multidisciplinary department. Within LEC, the Plant & Crop Science research group is internationally recognised for its research on crop performance in a changing environment. The photosynthesis team joined LEC in 2015 and is growing fast, with active recruiting in place.
Informal enquiries to Dr Elizabete Carmo-Silva, +44 (0)1524 594369, e.carmosilva@lancaster.ac.uk, or Prof Martin Parry, +44 (0)1524 595084, m.parry@lancaster.ac.uk.

## Senior Research Associate – Crop Physiologist: Phenotyping Traits for Wheat Drought Tolerance

**Salary:** £32,600 - £37,768 per annum
**Closing Date:** Thursday 11 February 2016
**Reference:** A1433
We are seeking a highly motivated and enthusiastic plant physiologist to join the team as a research associate contributing to the project Combining field phenotyping and next generation genetics to uncover markers, genes and biology underlying drought tolerance in wheat. The successful candidate will have a background in plant sciences, and relevant experience of plant physiology and biochemistry, including gas-exchange measurements by infra-red gas analyses, and quantification of hormone levels in plant tissues. The post will be mostly based at Lancaster, but the project requires the post-holder to travel to India for a period of up to 3 months to participate in the phenotyping of field-grown wheat genotypes.

This is a fixed term contract for 22 months. Further information, including details of how to apply, is available at https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=A1433

## Senior Research Associate - Plant Sciences for Food Security: Phenotyping Biomass Traits for Wheat Yield Improvement (IWYP)

**Salary:** £32,600 - £37,768 per annum
**Closing Date:** Thursday 11 February 2016
**Reference:** A1431
We are seeking a highly motivated and enthusiastic plant physiologist to join the photosynthesis team as a research associate contributing to the project Wider and Faster: High-Throughput Phenotypic Exploration of Novel Genetic Variation for Breeding High Biomass and Yield in Wheat. The successful candidate will have a background in plant sciences, and relevant experience of plant physiology and biochemistry, including gas-exchange measurements by infra-red gas analyses, determination of photosynthetic enzyme activities and plant water use efficiency.

This is a fixed term contract for 20 months. Further information, including details of how to apply, is available at http://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=A1431

## Senior Research Associate – Plant Sciences for Food Security: Phenotyping Photosynthesis for Wheat Yield Improvement (IWYP)

**Salary:** £32,600 - £37,768 per annum
**Closing Date:** Thursday 11 February 2016
**Reference:** A1432
We are seeking a highly motivated and enthusiastic plant physiologist to join the photosynthesis team as a research associate contributing to the project Using Next Generation Genetic Approaches to Exploit Phenotypic Variation in Photosynthetic Efficiency to Increase Wheat Yield. The successful candidate will have a background in plant sciences, and relevant experience of plant physiology and biochemistry, including gas-exchange measurements by infra-red gas analyses and determination of photosynthetic enzyme activities. Prior involvement in (epi)genome-wide association studies will be highly regarded.

This is a fixed term contract for 3 years. Further information, including details of how to apply, is available at https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=A1432

## Senior Research Associate – Plant Sciences for Food Security: Increasing Photosynthesis and Yield in Rice (BBSRC Newton fund)

**Salary:** £32,600 to £37,768
**Closing Date:** Sunday 14 February 2016
**Reference:** A1430
We are seeking a highly motivated and enthusiastic plant molecular physiologist to join the photosynthesis team as a research associate contributing to the project Exploiting a Cyanobacterial $CO_2$ Concentrating Mechanism to Increase Photosynthesis and Yield in Rice. The successful candidate will have a background in plant sciences, and relevant experience of molecular and cellular biology, plant biochemistry and physiology, including protein detection and quantification by western blotting, measurement of net CO2 assimilation by infra-red gas analyses, Rubisco properties, and plant development and productivity. Prior experience with rice, as well as with microscopy, will be highly regarded.

This is a fixed term contract for 3 years. Further information, including details of how to apply, is available at https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=A1430

## Research Technician in Plant Sciences for Food Security (IWYP)

**Salary:** £25,023 to £30,738 per annum
**Closing Date:** Wednesday 10 February 2016
**Reference:** N1021
We are seeking a highly motivated and enthusiastic plant biochemist to join the photosynthesis team as a research technician contributing to the project Realising Increased Photosynthetic Efficiency to Increase Wheat Yields, as part of the International Wheat Yield Partnership (IWYP). The successful candidate will have a background in plant sciences, and some experience of plant biochemistry and physiology. Experience in measuring CO2 assimilation by infra-red gas analyses and protein analysis by gel electrophoresis will be highly regarded.

This is a fixed-term contract for 20 months. Further information, including details of how to apply, is available at https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=N1021

## Research Technician in Plant Sciences for Food Security (Photosynthesis)

**Salary:** £25,023 to £30,738 per annum
**Closing Date:** Wednesday 10 February 2016
**Reference:** N1022
We are seeking a highly motivated and enthusiastic plant biochemist to join the photosynthesis team as a research technician contributing to research in plant sciences for food security. The Photosynthesis team has a growing research programme that focuses on improving photosynthetic efficiency in crop plants. The successful candidate will have a background in plant sciences, and some experience of plant biochemistry and physiology. Experience in techniques for measuring photosynthesis including infra-red gas analyses and protein biochemical assays will be highly regarded.

This is a fixed term contract for 2 years. Further information, including details of how to apply, is available at https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=N1022

## PhD studentship: Exploiting variation in the regulation of carbon assimilation to improve wheat productivity

**Closing Date:** 14 February 2016
**Funding:** Full studentship (UK/EU tuition fees and stipend (£14,057 2015/16 [tax free]) for UK/EU students for 3.5 years, or full studentship (International tuition fees and stipend (£14,057 2015/16 [tax free]) for International students for 3 years.
We are seeking a highly motivated and enthusiastic PhD student to join the Photosynthesis team and contribute to research in plant sciences for food security. We have a growing research programme that focuses on improving photosynthetic efficiency in crop plants. We are seeking applications from graduates or those who expect to graduate in 2016 with a relevant BSc or Masters degree. You should have a strong background in Biology and Plant Sciences. You must have demonstrable potential for creative, high-quality PhD research.

Further information, including details of how to apply, is available at http://www.lancaster.ac.uk/lec/postgraduate/postgraduate-research/research-degree-opportunities/current-opportunities/index.php?phd_id=251